



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-02-07-10 Date: 10-02-18
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP,
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-02-18
Sample ID No : 2018-02-07-10 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 4
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 08-02-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.53	—
2	Fineness by Air permeability method (m ² /kg, Min)	298.4	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-02-07-10 Date: 08-03-18

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-10 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 08-02-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.0N/mm ²	Not less than 53 N/mm ²

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ಮಾಲೀಕರ, ಬಿಬಿಎಂಪಿ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-02-07-10 **Date:** 10-02-18

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-10 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 07-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	202	202	1.3	98.7	90-100
3	20 mm	6748	6950	46.3	53.7	30-70
4	10 mm	5122	12072	80.5	19.5	10-35
5	4.75 mm	2425	14497	96.6	3.4	0-5
6	Pan	503	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-02-07-10

Date: 10-02-18

Sample ID No : 2018-02-07-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.25	—

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R. Karthik

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

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Sk. Jayaraj

ಅಧ್ಯಕ್ಷರ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ

ಪಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ

ಬಾಗಲಗುಂಜಿ, ಬಿಬಿಎಂಪಿ

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-02-07-10 Date: 09-02-18
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-02-18
Sample ID No : 2018-02-07-10 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 07-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	205	205	4.1	95.9	90-100
3	10 mm	2411	2616	52.3	47.7	25-55
4	4.75 mm	2158	4774	95.5	4.5	0-10
5	Pan	226	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-02-07-10

Date: 09-02-18

Sample ID No : 2018-02-07-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.53	—
6	Water Absorption(%)	0.26	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN

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Quality Manager

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TESTED BY: *Signature*

DATE: *Signature*

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Certificate No.: TC- 5548

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-02-07-10 Date: 09-02-18
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-02-18
Sample ID No : 2018-02-07-10 /03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 07-02-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	46	46	4.6	95.4	90-100	90-100	90-100	95-100
3	2.36 mm	152	198	19.8	80.2	60-95	75-100	85-100	95-100
4	1.18 mm	177	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	238	613	61.3	38.7	15-34	35-59	60-79	80-100
6	300 micron	235	848	84.8	15.2	5-20	8-30	12-40	15-50
7	150 micron	100	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Sk. Dayan
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ಪ್ರ.ದಾಸರಾಜ್ ಉಪ-ವಿಭಾಗ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-02-07-10

Date: 09-02-18

Sample ID No : 2018-02-07-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.47	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	3.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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ಟಿ.ಕಾರ್ತಿಕ ರೆಚನ್, ಉಪ-ವಿಭಾಗ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-02-07-10 Date: 09-02-18
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-02-18
Sample ID No : 2018-02-07-10 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 08-02-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.395	538	648	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.344	557	568	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	563	682	21.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-02-07-10 **Date:** 12-02-18
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-02-18
Sample ID No : 2018-02-07-10 /06
Sample Type /Size : Precast Cover Slab
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 08/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.48	100.52	1.385	4474	88.4	19.8	18.4	23.0
2	Cover Slab-2	75.51	100.47	1.345	4477	85.7	19.1	17.8	22.3
3	Cover Slab-3	75.49	100.42	1.397	4475	88.9	19.9	18.5	23.1

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ಮಂಡಳಿಯಲ್ಲಿ ಉಪ-ವಿಭಾಗ
ದಾಖಲಾಗಿದೆ. ಪಿ.ಪಿ.ಎಂ.ಸಿ.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2018-02-07-10 Date: 12-02-18

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-10 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/02/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.48	165.48	2.815	7928	152.4	19.2	19.2	24.0
2	B	100.58	165.37	2.826	7944	149.8	18.9	18.9	23.6
3	C	100.47	165.42	2.864	7926	150.6	19.0	19.0	23.7

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ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
ಕರ್ನಾಟಕ

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-20-15 Date: 21/02/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-15 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/02/2018	21/02/2018	151.96 X 150.53 X 150.77	22875	8.247	414.0	18.1	18.2
2	Drain Concrete	M20	14/02/2018	21/02/2018	149.66 X 150.43 X 150.44	22513	8.263	400.7	17.8	
3	Drain Concrete	M20	14/02/2018	21/02/2018	150.56 X 150.76 X 150.60	22698	8.219	424.5	18.7	

Note:

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R. K. Karthik Rechan
 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

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****End of Report****

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 ಪಿ.ಎಸ್.ಆರ್.ಎಸ್. ಉಪ-ವಿಭಾಗ
 ಮುಖ್ಯಮಂತ್ರಿ ಕಛೇರಿ

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2018

Lab ID : CP-2018-02-20-15
Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address : Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14
Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.
Customer's Reference : EE/DD/LOA/1659/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-02-18
Sample ID No : 2018-02-20-15 /02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	14/02/2018	14/03/2018	150.39 X 151.75 X 149.68	22822	8.247	520.3	22.8	22.9
2	Drain Concrete	M20	14/02/2018	14/03/2018	150.33 X 150.47 X 150.69	22620	8.211	522.5	23.1	
3	Drain Concrete	M20	14/02/2018	14/03/2018	150.77 X 150.86 X 149.63	22745	8.163	518.6	22.8	

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R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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ಪ್ರಾ.ನಿರ್ದೇಶಕರು, ಬಿ.ಬಿ.ಎಂ.ಸಿ.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-20-14 Date: 21/02/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-14 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/02/2018	21/02/2018	149.63 X 151.24 X 149.63	22630	8.147	405.1	17.9	18.1
2	Drain Concrete	M20	14/02/2018	21/02/2018	151.47 X 150.22 X 150.17	22754	8.163	416.4	18.3	
3	Drain Concrete	M20	14/02/2018	21/02/2018	150.36 X 150.44 X 149.87	22620	8.175	409.4	18.1	

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Quality Manager

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Sk. Sangeetha

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-20-14 **Date:** 14/03/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-14 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	14/02/2018	14/03/2018	151.18 X 150.69 X 150.37	22781	8.244	539.9	23.7	23.2
2	Drain Concrete	M20	14/02/2018	14/03/2018	150.28 X 149.63 X 150.44	22486	8.169	514.9	22.9	
3	Drain Concrete	M20	14/02/2018	14/03/2018	149.63 X 150.75 X 151.42	22557	8.206	521.1	23.1	

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Quality Manager

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-20-14 Date: 21/02/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-14 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/02/2018	21/02/2018	151.44 X 150.35 X 150.47	22769	8.175	412.1	18.1	18.1
2	Drain Concrete	M20	14/02/2018	21/02/2018	150.63 X 150.41 X 150.76	22656	8.163	405.5	17.9	
3	Drain Concrete	M20	14/02/2018	21/02/2018	149.63 X 151.43 X 151.05	22658	8.169	416.9	18.4	

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R. Karthik
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 ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-20-15 Date: 14/03/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Muneshwara Nagara in Bagalagunte ward No.14

Agency : Sri.Sree Ram Reddy, #62, Behind Widia, Ashok Nagara, Nagasandra (P), Bangalore.

Customer's Reference : EE/DD/LOA/1659/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-14 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/02/2018	14/03/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Drain Concrete	M20	14/02/2018	14/03/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Drain Concrete	M20	14/02/2018	14/03/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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